PLYCOGCHEV, V.Ye.; VARFOLOMOTEV, M.E.

Lenthanum perchanates. Thur. neorg. khim. 10 no.1.103-108
Ja '65.

(MIF' 18-11)

L. Moskovskiy Institut tenkoy khimicheskoy tekhnologis imeni
Lomonosova. Submitted Dec. 18, 1965.

1. 12707-63 FMP(q)/FWT(m)/BDS AFFTC JD/JO ACCESSION NR: AP3000303 8/0020/63/150/001/0105/0108

55 54

AUTHOR: Plyushchev, V. Te.; Amosov, V. M.; Varfolomeyev, M. B.

TIPLE: The synthesis and several properties of lower crystallohydrates of yttrium, lenthamum and lenthanoid perrhenates

SOURCE: AN SSSR. Doklady, v. 150, no. 1, 1963, 105-108

TOPIC TAGS: yttrium, lanthamum, lanthamcid perrhenate, lower crystallohydrate

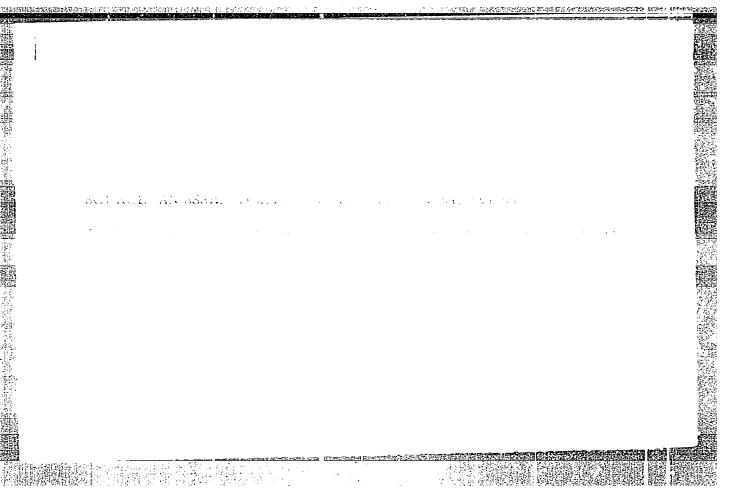
ABSTRACT: The existence of anhydrous parrhenates has not been previously established. This article reports a method of preparation of anhydrous perrhenates of the rare earth elements by dehydration of their lower crystallohydrates. The obtained perrhenates of yttrium, lanthamm and lanthamoids are soluble in water in considerable proportions and thus the described synthesis can utilize the starting materials more effectively with a product yield of 95%. The synthesized perrhenates contain a minimum amount of water of crystallization. The rare earth perrhenates obtained at 75-80C are non-hygroscopic, fine crystals which readily dissolve in water, alcohol and acetone, and are stable between the temperature interval of 200-550C. This, art. has: 1 figure and 1 table.

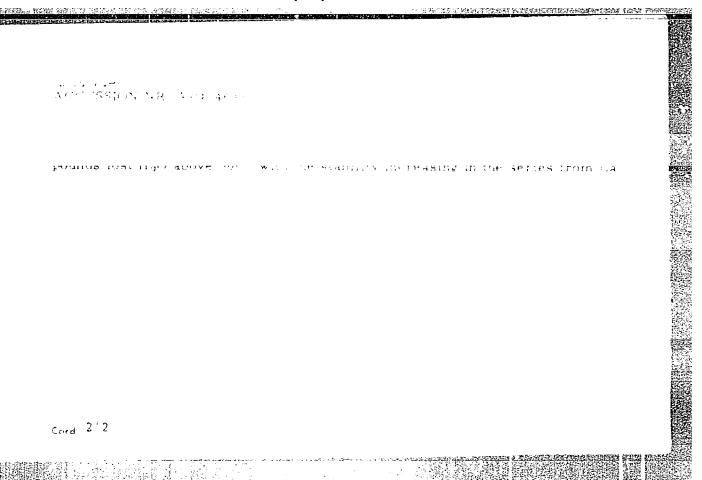
ASSOCIATION: Moskovskiy institut tonkoy khimicheskoy tekhnologii im. M. V. Card 1/2/

PLYUSHCHEV, V.Ye.; VARFOLOMEYEV, M.B.

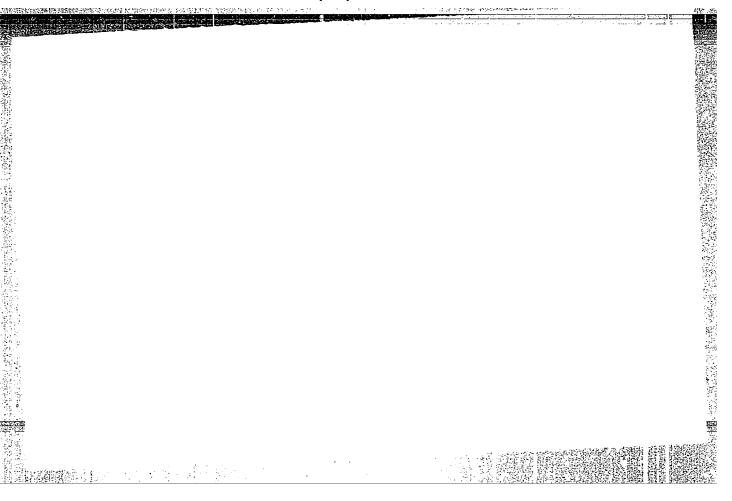
Yttrium perrhenates. Zhur. neorg. knim. 10 no.1:109-114 Ja 165. (MIRA 18:11)

1. Moskovskiy institut tonkoy knimicheskoy tekhnologli imeni Lomonosova. Submitted April 8, 1964.









PLYUSHCHEV, V. Ye.; VARFOLOMEYEV, M.B.

Cerium perchenate and its crystal hydrates. Izv. vjs. ucheb.
zav.; khim. i khim. tekh. 8 no.3:j61-366 '65. (MIRA 18:10)

1. Moskovskiy institut teckey khimicheskoy tekhnologii imeni
Lomonosova, kafedra khimii i tekhnologii redkikh i rasseyannykh elementov.

ACC NRI AP6019045

A

SOURCE CODE: UR/0078/66/011/002/0294/0298

AUTHOR: Plyushchev, V. Ye.; Varfolomeyev, M. B.

ORG: Moscow Institute of Fine Chemical Technology im. M. V. Lomonosov (Moskovsky institut tonkoy khimicheskoy tekhnologii)

TITLE: Perrhenates of neodymium and samarium

SOURCE: Zhurnal neorganicheskoy khimii, v. 11, no. 2, 1966, 294-298

TOPIC TAGS: rhenium compound, neodymium compound, samarium compound, inorganic synthesis, refractive index, melting point

ABSTRACT: The synthesis of neodymium and samarium perrhenates was made with an excess of Me<sub>2</sub>O<sub>3</sub> (Me = Nb or Sm) by dissolving exide ( $\sim 2.5$  g Nd<sub>2</sub>O<sub>3</sub> or Sm<sub>2</sub>O<sub>3</sub>) in HReO<sub>4</sub> ( $\sim 70$  ml at  $\sim 240$  g/l concentration (heated in a water bath). The reaction was controlled by methyl red (pH of transition was 6.2) and the H<sub>2</sub>O<sub>2</sub> was added to accelerate the reaction. The solutions obtained were filtered out for removal of excess Me<sub>2</sub>O<sub>3</sub> and the compounds were crystallized by steaming the solutions in a water bath at 75-80C. The Nd (ReO<sub>4</sub>)<sub>3</sub>·H<sub>2</sub>O and Sm (ReO<sub>4</sub>)<sub>3</sub>·H<sub>2</sub>O were formed under these conditions when the solutions were left to evaporate completely. The crystals, consisting of Nd (ReO<sub>4</sub>)<sub>3</sub>·4H<sub>2</sub>O and Sm (ReO<sub>4</sub>)<sub>3</sub>·4H<sub>2</sub>O, were produced when the solutions were evaporated to almost saturated conditions and coaled to room temperature. The crystals of Mo (ReO<sub>4</sub>)<sub>3</sub>·4H<sub>2</sub>O and

Card 1/2

UDC: 546.719.71657+546.719.71659

ACC, NR: AP6019045

Me(ReO<sub>4</sub>)<sub>3</sub>.4H<sub>2</sub>O were nonhygroscopic, soluble in water and alcohol, and partly weathered during prolonged storage in air. The needymium and samarium perrhenates had an orthorhombic habit and the following properties:

	Density	Helractive	U. Tildeve
2)	g <b>∕co</b>	1.675	1.668
Nd (ReO <sub>4</sub> ) <sub>3</sub> •4H <sub>2</sub> O Sm (ReO <sub>4</sub> ) <sub>3</sub> •4H <sub>2</sub> O	4 <b>.</b> 395 4.487	1.684	1.675
Nd (ReO <sub>4</sub> )3 • H <sub>2</sub> 0	5.285	1.733	1.720
Sm (ReO, ) HO	5.331	1.733	1.723

Dehydration of Me(ReO<sub>4</sub>)3°4H<sub>2</sub>O at 50C resulted in their transformation into Me(ReO<sub>4</sub>)3° Dehydration of Me(ReO<sub>4</sub>)3°4H<sub>2</sub>O at 50C resulted in their transformation into Me(ReO<sub>4</sub>)3° H<sub>2</sub>O. The latter was converted at 140-160C into anhydrous salt. The anhydrous neodymium and samarium perrhenates were strongly hygroscopic, easily soluble in water and alcomand samarium perrhenates were stable during heating to temperatures below liquids. The anhydrous perrhenates were stable during heating to temperatures below 140-1650C. They decomposed at temperatures > 650C with liberation of Re<sub>2</sub>O<sub>7</sub>: 2Ma(ReO<sub>4</sub>)3<sup>-7</sup> 650C. They decomposed at temperatures > 650C with liberation of Re<sub>2</sub>O<sub>7</sub>: 2Ma(ReO<sub>4</sub>)3<sup>-7</sup> 650C. They decomposed at temperatures > 650C with liberation of Re<sub>2</sub>O<sub>7</sub>: 2Ma(ReO<sub>4</sub>)3<sup>-7</sup> 650C. They decomposed at temperatures > 650C with liberation of Re<sub>2</sub>O<sub>7</sub>: 2Ma(ReO<sub>4</sub>)3<sup>-7</sup> 650C. They decomposed at temperatures > 650C with liberation of Re<sub>2</sub>O<sub>7</sub>: 2Ma(ReO<sub>4</sub>)3<sup>-7</sup> 650C. They decomposed at temperatures > 650C with liberation of Re<sub>2</sub>O<sub>7</sub>: 2Ma(ReO<sub>4</sub>)3<sup>-7</sup> 650C. They decomposed at temperatures > 650C with liberation of Re<sub>2</sub>O<sub>7</sub>: 2Ma(ReO<sub>4</sub>)3<sup>-7</sup> 650C. They decomposed at temperatures > 650C with liberation of Re<sub>2</sub>O<sub>7</sub>: 2Ma(ReO<sub>4</sub>)3<sup>-7</sup> 650C. They decomposed at temperatures > 650C with liberation of Re<sub>2</sub>O<sub>7</sub>: 2Ma(ReO<sub>4</sub>)3<sup>-7</sup> 650C. They decomposed at temperatures > 650C with liberation of Re<sub>2</sub>O<sub>7</sub>: 2Ma(ReO<sub>4</sub>)3<sup>-7</sup> 650C.

SUB CODE: 07/ SUBM DATE: 09Nov64/ ORIG REF: 003/ OTH REF: 001

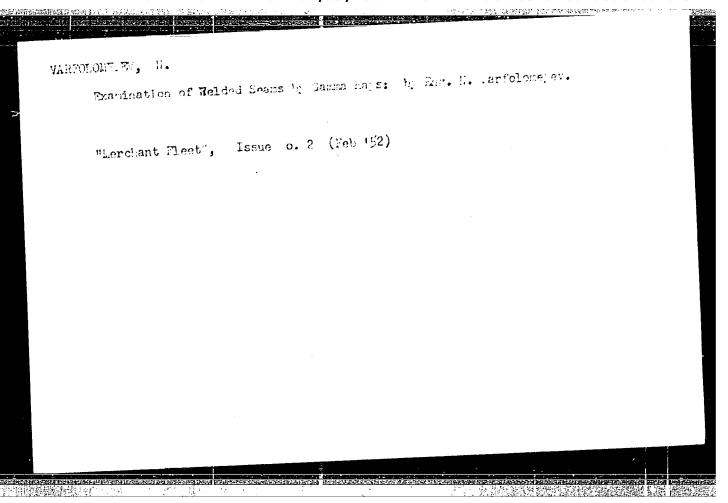
Card 2/2

也是被翻翻新行行。

JD/JG EWT(m)/EWP(t)/EWP(b) IJP(c) L 4457-66 UR/0070/65/010/004/0509/0514 ACCESSION NR: AP5018718 548.736:535.342 AUTHORS: Ivanov, V. I.; Varfolomeyev, M. B.; Pervykh, V. G.; Plyushchev, V. Ye. Petrov, K. X-ray diffraction and infrared spectroscopic study of tetrahydrates of perrhenate of rare earth elements and yttrium 77 v. 10, no. 4, 1965, 509-514 Kristallografiya, SOURCE: TOPIC TAGS: x-ray diffraction analysis, IR spectroscopy, crystal lattice structure, crystal symmetry, crystal unit cell, rare earth element The authors investigated crystals of tetrahydrates of perrhenate of lanthanum, lanthanoids, and yttrium, the production and chemical analysis of which were described in an earlier paper (Dokl. AN SSSR v. 158, 664, 1964). A schematic study of the single crystals in x-ray cameras and with a diffractometer has shown that these substances crystallize in three different structural types. Card 1/3

÷ :	լ, հի57-66	
	ACCESSION NR: AP5018718	
and the second	the space group, and the unit-cell dimensions of representatives of these three groups are presented. The first group (LaGePr), consists these three groups are presented.	
	of anystals belonging to the monoclinic syngony, space group ogh	3
, i	$P2_1/c$ with four formula units per unit cell. The second group include $P2_1/c$ with four formula units per unit cell. The second group include $Pr$ , $Nd$ , $Sm$ , $Eu$ , $Gd$ , $Tb$ , and $Dy$ , with crystals of rhombic symmetry, and space group $C_{2y} = -Pna2_1$ , with four formula units per unit cell. The	•
	third group includes Ho, Er, Tu, Yb, Lu, and Y, forming crystals of triclinic syngony. The space group is Tl and the unit cell contains two formula units. The parameters of the unit cells and the infrated absorption spectra were obtained for some of these elements. In the case of the tetrahydrate of praseodymium perrhenate, it crystalthe case of the tetrahydrate of praseodymium perrhenate, it crystalthe case of the tetrahydrate of praseodymium perrhenate, it crystalthe case of the tetrahydrate of praseodymium perrhenate, it crystalthe case of the tetrahydrate of praseodymium perrhenate, it crystalthe case of the tetrahydrate of praseodymium perrhenate, it crystalthe case of the tetrahydrate of praseodymium perrhenate, it crystalthe case of the tetrahydrate of praseodymium perrhenate, it crystalthe case of the tetrahydrate of praseodymium perrhenate, it crystalthe case of the tetrahydrate of praseodymium perrhenate, it crystalthe case of the tetrahydrate of praseodymium perrhenate, it crystalthe case of the tetrahydrate of praseodymium perrhenate, it crystalthe case of the tetrahydrate of praseodymium perrhenate, it crystalthe case of the tetrahydrate of praseodymium perrhenate, it crystalthe case of the tetrahydrate of praseodymium perrhenate, it crystalthe case of the tetrahydrate of praseodymium perrhenate, it crystalthe case of the tetrahydrate of praseodymium perrhenate, it crystalthe case of the tetrahydrate of praseodymium perrhenate, it crystalthe case of the tetrahydrate of praseodymium perrhenate of	
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	same conditions. The authors thank Ye. S. Makarov for interest in the work. Orig. art. has: 3 figures and 2 tables.	

L 1457-66 ACCESSION NR: AP5018718	
ASSOCIATION: Institut geokhimii i analiticheskoy khimii im. V. 1. Venadskogo AN SSSR (Institute of Geochemistry and Analytical Chemistry, AN SSSR; Moskovskiy institut tonkoy khimicheskoy tekhnologii im. AN SSSR; Moskovskiy institute of Fine Chemical Technology) M. V. Lomonosova (Moscow Institute of Fine Chemical Technology)	
SUBMITTED: 22Dec64 ENCL: 00 SUB CODE: 0P, SS  NR REF SOV: 003	
(A.D.	
Card 3/3	



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June 1954	of Applied CHemistry	method di alloy cont ferrosilico white iros noculate	escribed for ino aining C 3-5, S and liquid great at 1300—135	ast iron. N. M. Various outwaster, 1953, 3. N. culating cast iron in it is an added to cast iron and added to cast	e liquid state, an epared from 75% a ladle containing are sufficient to being 95%. The listing of a basic enly distributed latelets.	
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VARFOLOMEYEV, N.M.

USSR/Miscellaneous - Technology

Fub. 61 - 16/23 Card 1/1

Varfolomeyev, N. M., and Gol'denberg, D. M. Authors

Simplified method for the calculation of furnace batches Title

Lit. proizv. 3, 28-29, May-June 1954 Periodical

Simplified calculations of foundry-furnace charges (batches) are tabulated. Batch calculation, according to this table, is realized Abstract not only with regard to the chemical composition but also with regard

to the elements composing the batch. Table.

Institution :

Submitted

CIA-RDP86-00513R001858610016-5" APPROVED FOR RELEASE: 08/09/2001

25(1,5)

SOV/135-59-6-11/20

AUTHÓR:

Varfomoleyev, M. M., Candidate of Technical Sciences

TITLE:

Gas-Cutting Without Deformation

PERIODICAL:

Svarochnoye Proizvodstvo, 1959, Nr 6, pp 34-36 (USSR)

ABSTRACT:

The author discusses a new method of gas-cutting by air-water-cooling which proves the possibility of cutting single parts without deformation. G. I. Matskevich participated in the experiment. The new method is an air-water-cooling of the cutting edge while cutting by two concentric currents - condensed air within, and water on the outside - around the cutter-flame. Figure 1 shows a special cutter GRUD-51 constructed by the author to apply the new method. Figure 2 gives technical description of the new cutter. The author discusses his experience in welding St 3 and S Ch L steel, (Table 1). The sizes of distortion in cutting GRUD-51 are given in table 2. The authors state that the application of the GRUD-51 cutter is especially efficient for narrow single parts of complicated configuration. The single parts can be prepared for automatic welding

Card 1/2

Gas-Cutting Without Deformation

SOV/135-59-6-11/20

without additional treatment of the cutting edge. The steel plate (2 mm) can be cut by the new method. There are 3 photographs, 2 diagrams and 2 tables.

ASSOCIATION: Kiyevskiy institut grazhdanskogo vozdushnogo flota (Kiyev Institute for Civil Airlines)

Card 2/2

VARFOLOMEYEV, N. M., kand. tekhn. nauk, dotsent

Preventing deformations during mechanical gas cutting.
Izv. vys. ucheb. zav.; mashinostr. no.7:155-168 '62.
(MIRA 16:1)

1. Kiyevskiy institut grashdanskogo vozdushnogo flota.
(Gas welding and cutting)

ACCESSION NR: AP4013092

5/0126/64/017/001/0045/0048

AUTHORS: Arbuzov, M. P.; Varfolomeyev, N. M.

TITLE: Deformation effect on the position of Curie point of cementite

SOURCE: Fizika metallov i metalloved., v. 17, no. 1, 1964, 45-48

TOPIC TAGS: iron, Armco iron, UlO steel, steel, Curie point of cementite, cementite, deformation effect on cementite, steel hardening, hardening, annealing, steel annealing

ABSTRACT: A series of magnetometric investigations of annealed and mechanically hardened carbon steel were carried out in order to determine the deformation effect on the position of the Curie point of cementite. Some of the samples were held at 300, 400, 500 and 6150 for one hour in order to study the position of the Curie point during this process. The samples consisted of Armco iron and of steel UlO. They were heated to 7500, held for  $1\frac{1}{2}$  hours at 7100, and were then cooled in the oven. Some of the samples underwent uniaxial compression (75% of deformation). The curves showing the relation of the saturation magnetization to temperature were recorded (during a continuous heating of samples) by an Akulov anisometer in the field intensities of  $1/\pi \times 10^{6}$  a/m and  $5/4\pi \times 10^{6}$  a/m (the results obtained Cord 1/2

### ACCESSION NR: APLO13092

at both intensities were identical). It was established that the Curie point of cementite in the deformed steel samples occurred at higher temperatures (260-2700) than in the nondeformed annealed steel. During heating (which removed the plastic deformation effect) the Curie point moved to its normal position at 2100. The authors state that no definite conclusion concerning this effect can be made yet because of insufficient experimental data. They believe, however, that the displacement of the Curie point in the course of deformation was not related to the transformation of cementite into another carbide. Orig. art. has: 3 figures.

ASSOCIATION: Kiyevskiy institut GVF ( Kiev Institute GVF)

SUBMITTED: 28Dec62

DATE ACQ: 26Feb6lr

ENCL: 00

SUB CODE: ML, PH

NO HEF SOV: 013

OTHER: 005

Card 2/2

### VARFOLOMEYEV, P.

How supplementary wages are being determined in the Tatar A.S.S.R. Fin.SSSR 21 no.5:56-57 My '60. (MIRA 13:7)

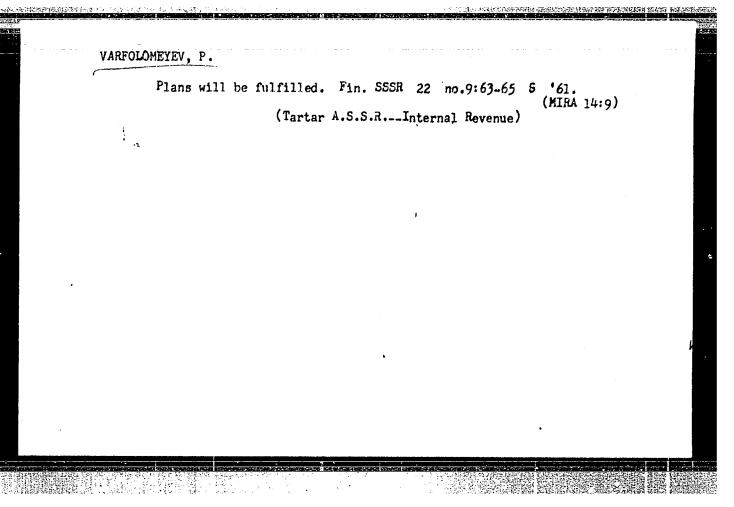
1. Starshiy revizor Ministerstva finansov Tatarskoy ASSR. (Tatar A.S.S.R.--Bonus system)

## The party organization and improvement of operation of the apparatus. Fin. SSSR 21 no.10:76-78 0 '60. (MIRA 13:10) 1. Chlen partbyuro Ministerstva finansov Tatarskoy ASSR. (Tatar A.S.S.R.--Finance) (Communist Party of the Soviet Union--Party work)

WARFOLAMEYEV, P., revizor; GARANIN, I., revizor

Increase the control over service industry enterprises. Fin. SSSR 22 no.4:49-50 Ap '61. (MEA 14:4)

1. Minesterstvo finansov Tatarskoy ASSR. (Tartar A.S.S.R.—Service industries—Finance)



# VARFOLOMEYEV, P. From the work practice of a bureau of economic analysis. Fin. SSSR 23 no.4:55-56 Ap '62. (MIRA 15:4) 1. Starshiy inspektor Ministerstva finansov Tatarskoy ASSR. (Kazan—Machinery industry—Finance)

# VARFOLOMEYEV, P. Close relations are needed. Fin. SSSR 23 no.8:37-40 Ag (MIRA 15:8) 1. Starshiy inspektor Ministerstva finansov Tatarskoy ASSR. (Tatar A.S.S.R.—Industrial management) (Tatar A.S.S.R.—Finance)

KHALITOV, S.; VARFOLOMEYEV, F., vneshtatnyy korrespondent

Financial organs' control over the consumer service industries.

Fin. SSSR 37 no.6:68-72 Je '63. (MIRA 16:9)

(Kazakhstan—Service industries—Auditing and inspection)

(Tatar A.S.S.R.—Service industries—Auditing and inspection)

(Finance)

是智慧的

VARFOLOMEYEV, P.N.; VUL'F, T.Ye.; SHCHERBAKOV, D.I., akademik, redaktor; DROZDOV, P.D., redaktor; SHMANENKOV, I.V., redaktor; KUREK, K.N. professor, redaktor.

[Minerals in the national economy; an album] Polernye iskopaemye v narodnom khoziaistve; al'bom. Moskva. Gos.nauchno-tekhn.izd-vo lit-ry, po geol. i okhrane nedr. No.2:[Ores of ferrous and non-ferrous metals.——Explanatory text. Metal ore resources] Rudy chernykh i tsvetnykh metallov. 1955. 26 plates —— Poiasnitel'nyi tekst. Metallicheskie poleznye iskopaemye. Sost. P.N.Vorfolomeev i T.E.Vul'f. Konsul'tant N.N.Kure. 54 p. [Microfilm] (MLRA 9:1)

VARFOLOMEYEV, P.S., inzh.

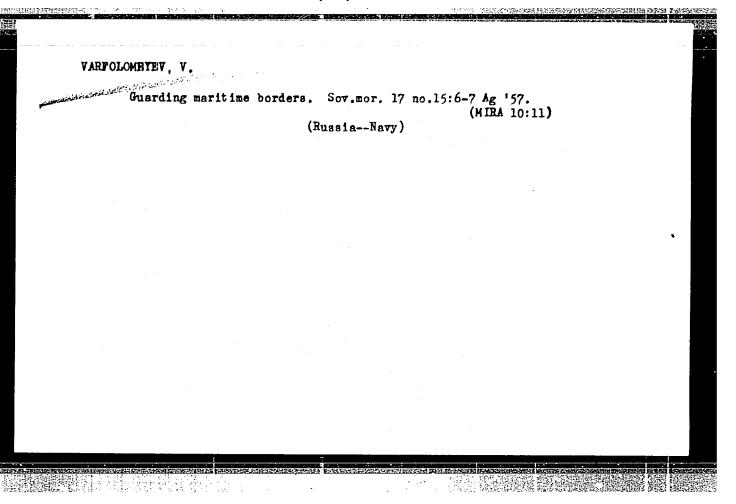
Purification and deactivating of sewage in the new woodpulp and paper factories. Bum.prom. 37 no.9:4-6 S '62.

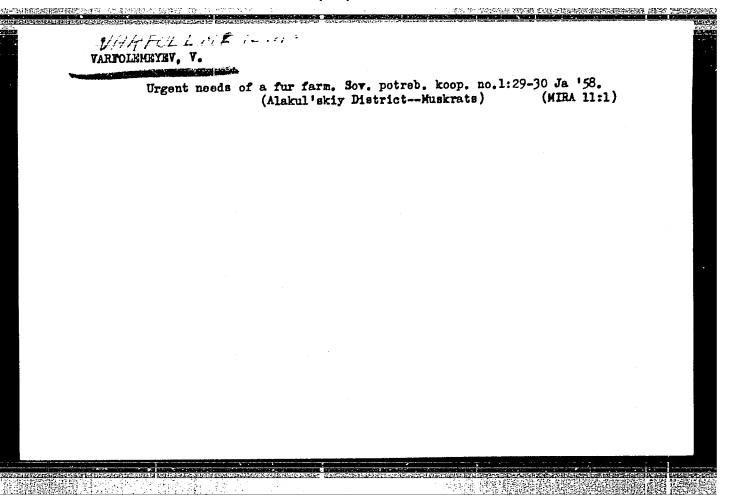
(MIRA 15:9)

1. Gosudarstvennyy institut po proyektirovaniyu predpriyatiy tsellyuloznoy i bumazhnoy promyshlennosti.

(Woodpulp industry—Equipment and supplies)

(Sewage—Purification)





VARFOIOMEYEV, V. (g.Stavropol' (Volzhakiy))					
City of a big chemistry plant. Sov.profsoiuzy 16 no.5:30-33 (MIRA 13:3) Mr '60. (Stavropol(Kuybyshev Province)Rubber, Sunthetic)					

## VARFOLOMBYEV, V.

Fellow-up to a letter. Sov. shakh. 11 no.10:21 0 '62.

(MIRA 15:9)

(Ceal mines and mining--Accidents) (Insurance, Accident)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001858610016-5"

MYZNIKOV, V. (Khar'kov); MIROSHNICHENKO, M. (Khar'kov); SHCHETINA, A., frezerovshchitsa, delegat XXII s"yezda Kommunisticheskoy partii Sovetskogo Soyuza (Khar'kov); DOMRIN, I. (Khar'kov); VARFOLOÆYEV, V. (Khar'kov)

Approved and... forgotten. Sov. profsoiuzy 18 no.4:20 F '62. (MIRA 15:3)

1. Reydovaya brigada zhurnala "Sovetskiye profsoyuzy". 2. Rukovoditel' brigady kommunisticheskogo truda imeni XXII s"yezda Kommunisticheskoy partii Sovetskogo Soyuza 3-go mashinnogo tsekha Khar'kovskogo elektromekhanicheskogo zavoda (for Myznikov).

3. Sekretar' partorganizatsii 5-go apparatnogo tsekha Khar'kovskogo elektromekhanicheskogo zavoda (for Miroshnichenko). 4. 3-y mashinnyy tsekh normalizovannykh detaley Khar'kovskogo elektromekhanicheskogo zavoda (for Domrin). 5. Spetsial'nyy korrespondent zhurnala "Sovetskiye profsoyuzy" (for Varfolomeyev).

(Kharkov-Lectric industries-Hygienic aspects)

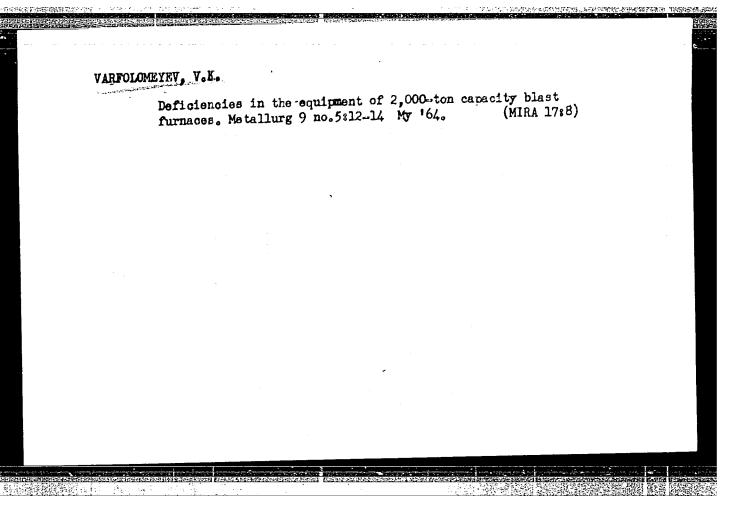
Leverless self-resetting safety valve. 163. (Boilers-Safety appliances)	Zhilkom. khoz	. 13 no.1:25 (MIRA 16:3)

SEMENOV, L.S.; VARFOLOMEYEV, V.G.; YURCHENKO, A.L.

Manufacture of "SKO" covers from lacquer-coated aluminum. Kons. i ov. prom. 18 no.11:28-30 N '63. (MIRA 16:12)

1. Konservnyy kombinat v Krymske (for Semenov, Varfolomeyev).
2. Krasnodarskiy nauchno-issledovatel'skiy institut pishchevoy promyshlennosti (for Yurchenko).

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001858610016-5"



KOPYTINA, M.V.; VARFOLOMEYEV, V.M.

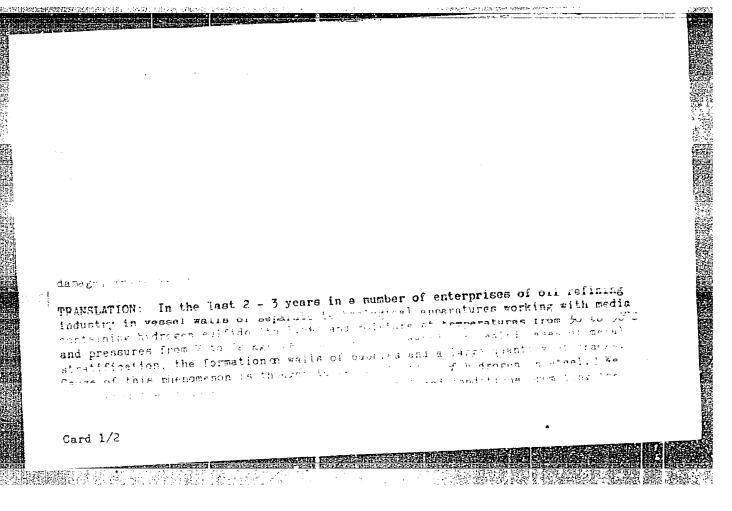
Application of the statistic method of the many-particle theory for the calculation of CH4 molecule. Zhur. strukt. khim. 5 no.4:604-607 Ag 164. (MIRA 18:3)

1. Voronezhskiy gosudarstvennyy universitet.

VARFOLOWEYEV, V.V., inzh.

Problem concerning the design of safety valves for large water-heating boilers. Elek. sta. 32 no.2:16-17 g '61. (MIRA 16:7) heating boilers.—Safety appliances)

(Water heaters) (Boilers.—Safety appliances)



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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001858610016-5"

VARFOLOMEYEV, V.V., inzh.

CONTROL OF A CONTROL OF THE PROPERTY OF THE PROPERTY OF

Examination of vessels of air-separating equipment. Bezop. truda v (MIRA 17:11) prom. 8 no.10:22-23 0 164.

1. Gosudarstvennyy komitet pri Sovete Ministrov RSFSR po nadzoru za bezopasnym vedeniyem rabot v promyshlennosti i gornomu nadzoru.

VARFOLOMEYEV, V.V., inzh.; KONDRASHOV, A.M., inzh.; IASUNOV N.A., Inzh.; SEN'KIN, Ye.G., inzh.; SIGALOV, L.B., inzh.

[Failures in boiler inspection systems and measures for preventing them; informational letter] Avarii na ob"ektakh kotwontonadzore i mery po ikh preduprezhdenilu; informatsionnoe pis'mo. Izd.2. Moskva, Nedra, 1965. 173 p. (MIRA 18:6)

1. Russia (1917. R.S.F.S.R.) Gosudarstvennyy komitet po nadzoru za bezopasnym vedeniem rabot v promyshlennosti i gornomu nadzoru.

VARFOLOUSTIN, V.F. (Leningrad)

Intravenous novocaine injection in an acute attack of glaucoma.

(MIHA 11:7)

Vest.oft. 71 no.1:54-55 Ja-F '53.

(OLAUCOMA, ther.

procaine, intravenous infusion in acute attack)

(PROCAINE, ther. use

glaucoma, intravenous infusion in acute attack)

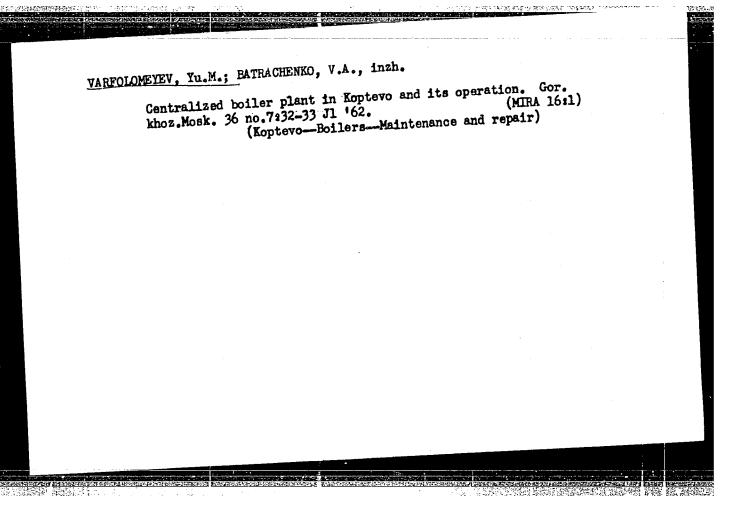
BAYKOV, Aleksey Vasil'yevich, inzh.; VARFOLOMEYEV, Ye.A., retsenzent; SHCHAPOV, N.P., retsenzent; KRISHTAL', L.I., red.; BOBROVA,

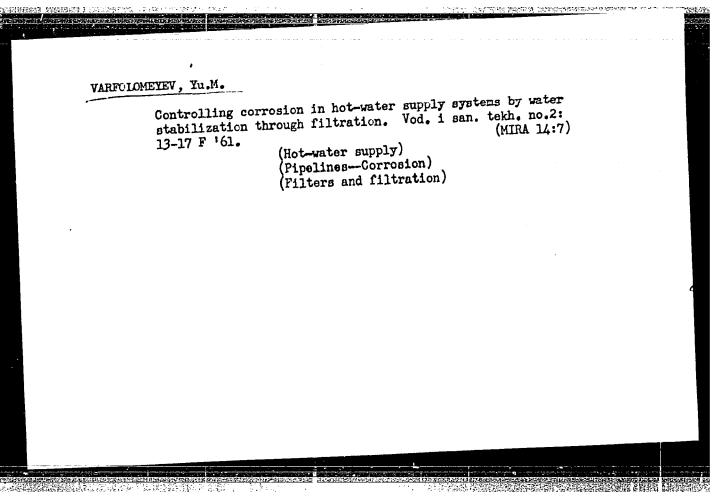
[Standardization in railroad transportation] Standartizatsiia na zheleznodorozhnom transporte. Moskva, Transzheldorizdat, 1962.

(MIRA 15:7)

(Railroads) (Standardization)

是"全国的"。





VARFOLOMETE A YU.N

AID P - 3529

Subject

USSR/Power Eng

Card 1/1

Pub. 26 - 23/30

Author

: Varfolomeyev, Yu. N., Eng.

Title

To V. I. Evseyev's article "On the performance of

disconnectors'

Periodical

: Elek. sta., 9, 57, S 1955

Abstract

The author criticizes Evseyev's article published in this periodical. No. 4, 1954 and emphasizes the need of revising the layouts and operations of networks especially in rural areas, in order to avoid short circuits. One diagram.

Institution : None

Submitted

: No date

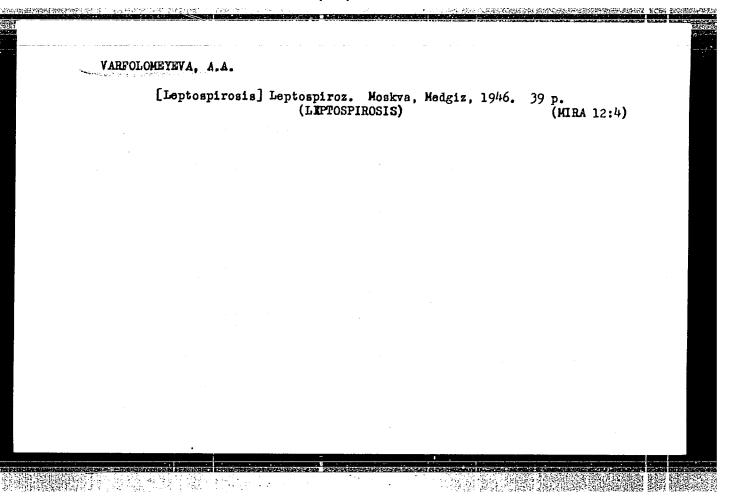
APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001858610016-5"

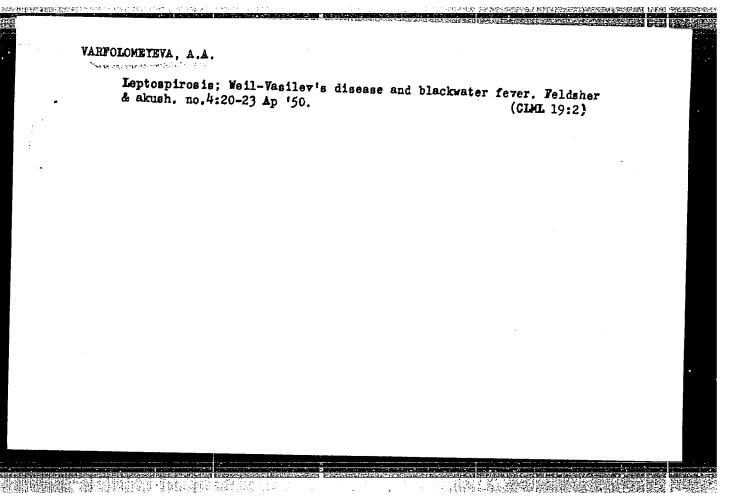
### VARFOLOMEYEVA, A.

N - Hospital in Mechinkova Inst., Moscow, (-1944-)

"Examination of a wound microflora and its dynamics in cytogramms of the wound exudation"

Zhur. Mikrobiol., Epidemiol., i Immunobiol., No. 9, 1944.





# "APPROVED FOR RELEASE: 08/09/2001

### CIA-RDP86-00513R001858610016-5

VARFOLOMEYEVA, A. A.

USSR/Medicine - Infectious Diseases

Nov 51

"Effectiveness of Penicillin Therapy in Jaundice-Free Leptospirosia," A. A. Varfolomeyeva, M. T. Yantsen, E. Ye. Estrina, Moscow Oblast Inst of Epidemiol, Microbiol, and Infectious Diseases imeni I. I. Mechnikov; Sychevsk Rayon Hosp.

"Sov Med" Vol XV, No 11, pp 29-32

Penicillin was found to be very effective in the therapy of jaundice-free leptospirosis.

204157

# VARFOLOMEYEVA, A.A.; KOVAL'SKIY, G.H., direktor. Preparation and application of anti-leptospirosis vaccine. Zhur.mikrobiol. epid.i immun. no.8:47-49 Ag '53. (MLRA 6:11)

1. Moskovskiy institut im. I.I.Mechnikova (for Sokolov). 2. Krasnodarskiy institut im. Savchenko (for Koval'skiy). (Vaccination)

# VARYOLOHUYEVA, A.A., KOVAL'SKIY, G.N.

Plea for more extensive application of achievements in the field of control of leptospirosis; results of the All-Union Scientific and Practical conference on Problems of Leptospiroses. Zhur. mikrobiol. epid. i immun. no.12:110-112 D '54. (MLRA 8:2) (LMPTOSPIROSIS, prevention and control, in Russia, conf.)

VERSHILOVA, Pelina Al'bertovna; OLSUF'YEV, Nikolay Grigor'yevich;
VARFOLOMEYEVA, Angelina Aleksandrovna; SHIK, M.M., redaktor;
ISLENT'IEVA, P.G., Vekhhilcheskiy redaktor.

[Contagious diseases transmitted by animals to man (brucellosis, tularemia, leptospirosis) Zaraznye bolezni, peredaiushchiesia ot zhivotnykh cheloveku(brutsellez, tuliaremiia, leptospiroz)
Moskva, Izd-vo "Znanie," 1955. 31 p. (Vsesoiusnoe obshchestvo po rasprostraneniiu politicheskikh i nauchnykh zmanii, Ser.3, no.18)

(Brucellosis) (Tularemia) (Leptospirosis)

VARFALOMEYEVA. A.A.; KAVAL'SKIY, G.H.

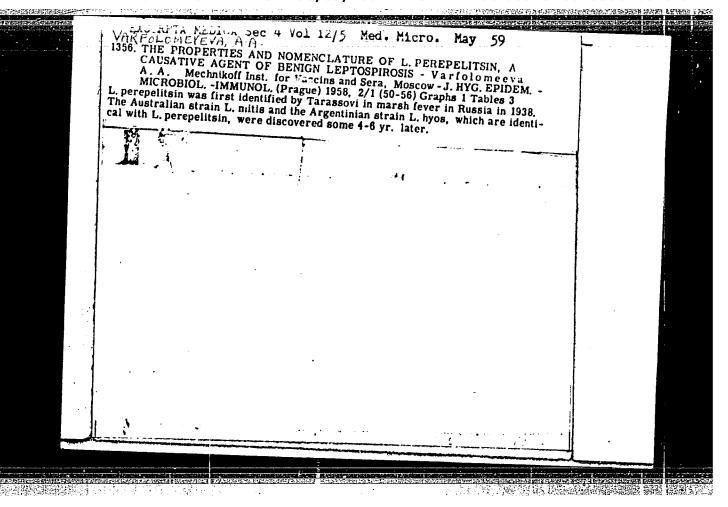
Discussion on P.F.Khoruzhenko's article "Epidemiology of swamp fever." Zhur.mikrobiol.epid. fi immun. 27 no.9:106-107 8 '56.

(IEPTOSPIROSIS, epidemiology. (MIRA 9:10)

swamp fever (Rms))

# WARFOLOMEYEVA. A.A. Spidemiology and etiology of an outbreak of leptospirosis. Zhur. mikrobiol.epid. i immun. 28 no.1:39-44 Ja '57. (MIRA 10:3) 1. Iz Moskovskogo instituta vaktsin i syvorotok imeni I.I.Mechmikova. (IMPTOSPIROSIS. epidemiology. in Russia (Rus))

### 



# VARFOLOMEYEVA, A.A.

History of discovery, characteristics and nomenclature of Leptospira monjakow. Thur. mikrobiol. epid. i immun. 29 no.8:36-1/2 (MIRA 11:10) Ag 158.

1. Iz Moskovskogo instituta vaktsii i syvorotok imeni Mechnikova. (LEPTOSPIRA.

monjakow, discovery, nature & nomenclature (his))

VARFOLOMEYEVA, A. A., LAUROVA, M. YA.

"The nidi of leptospiroses and their classification."

report submitted at the 13th All-Union Congress of Hygienists, Epidemiologists and Infectionists, 1959.

17(2)

sov/16-59-9-46/47

AUTHOR:

Varfolomeyeva, A.A.

TITLE:

Results of the International Symposium on Leptospiroses

PERIODICAL:

Zhurnal mikrobiologii, epidemiologii i immunobiologii, 1959, 101.30

Nr 9, pp 153-155 (USSR)

ABSTRACT:

The Symposium was held in Lublin, Poland, from 5 - 8 December 1958 and was devoted to the problem of leptospiroses in man and animals. It was organized by the State Institute for Rural Professional Medicine and Rural Hygiene under the direct sponsorship of the Polish Academy of Sciences. The following delegates attended: Professors Parnas, Zwierz, Tuszyński, Dabrowski? (Poland); Professor Kathe and Doctor Mochmann (East Germany); Doctor Kmety (ČSR); Professors Varfolomeyeva and Lyubashenko (USSR); Doctor Füzy (Hungary). The Symposium heard 30 papers, divided into 5 sessions. Parnas and his colleagues spoke on the morphological details of 27 serological types of leptospires. The results showed that the length and breadth of the body and the number of spirals in leptospires vary according to their species, their stage of development and growth. In young strains

Card 1/3

Results of the International Symposium on Leptospiroses

SOV/16-59-9-46/47

conglomerates are forming and in older strains spherical granules. The latter consist of an accumulation of nucleoproteids. Extracellular forms fulfil the function of stages of leptospire growth. Kmetý studied the antigenic mechanism of L. australis A, using the factorial investigation of serotypes. Kate described the occupational incidence of leptospiroses in East Germany. Tuszyński used recent records on leptospirosis in Poland to characterize the leptospirosis syndrome. Mochmann dealt with the question of complications which develop after leptospirosis. Varfolomeyeva dealt with the etiology of leptospiroses in the USSR, their specific prophylaxis and therapy with specific gamma-globulins and also demonstrated a universal laboratory model (baby rabbits) for reproducing leptospirosis. Lyubashenko gave an expose of contemporary data on the epizootology, etiology, prophylaxis and treatment of leptospirosis among domestic animals. The Symposium called for more symposia along the same lines. Work should be intensified on the classification of new strains. The International Bacteriological Code should be adhered to. Marsh drainage, the destruction of rodents

Card 2/3

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001858610016-5"

Results of the International Symposium on Leptospiroses

SOV/16-59-9-46/47

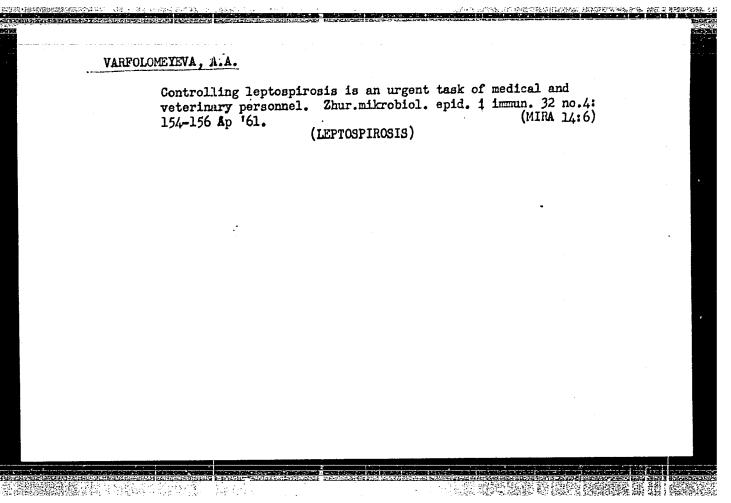
and improvement of sanitary conditions will help to counter leptospirosis. The vaccination of domestic animals is recommended, but work still remains to be done on the method. The Symposium commended the USSR's method of treating leptospirosis patients with gamma-globulins.

Card 3/3

VARFOLOMEYEVA, A.A.; PEROVA, K.S.; MINIOVICH, F.L.

Effectiveness of leptospiral gemma globulin in experiments. J.ngg. epidem.Praha 4 no.4:424-431 '60.

1. Metchnikoff Institute of Vaccines and Sera, Moscow.
(LEPTOSPIROSIS immunol)
(GAMMA GLOBULIN)



# VARFOLOMEYEVA, A.A.

"The antigenical nature of factors which evoke leptospirosis, under the aspect of the ecollogy of chief carriers."

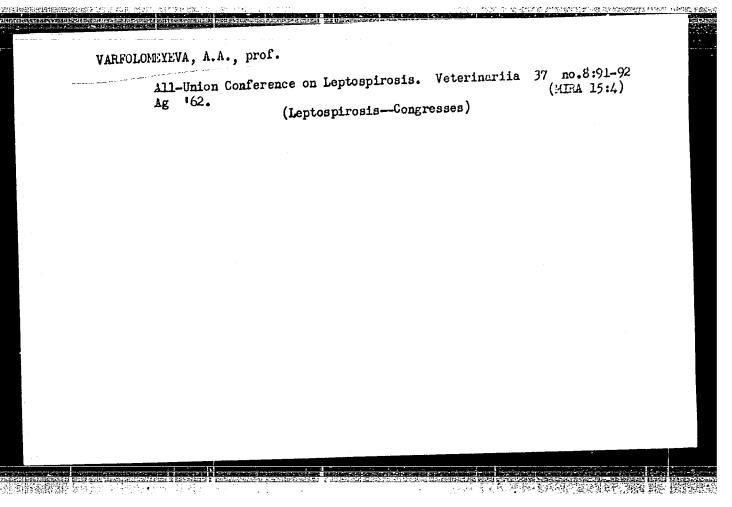
Report submitted to the Second Intl. Symp. on Human and animal Leptospirosis, Lublin, Poland 6-8 Dec 1962

Also the following reports:

"Systematic and taxonomy for leptospira in the SSSR."

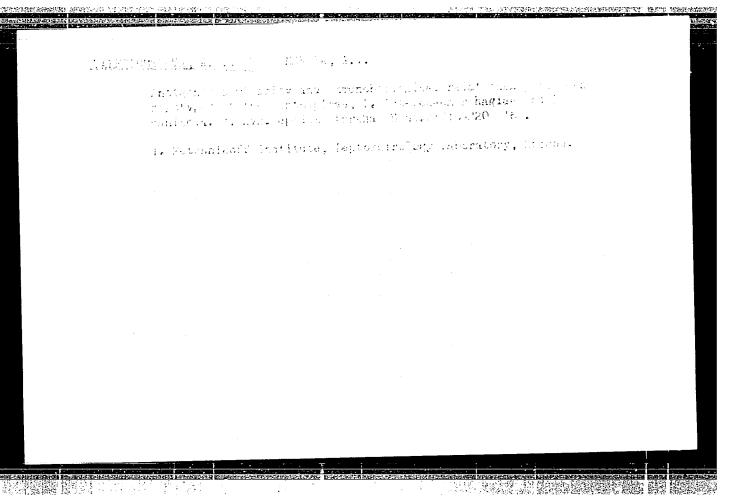
"The specific therapy of leptospirosis."

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001858610016-5"



VARYOUMEYEVA, A.A.; LAVROVA, M.Ya.

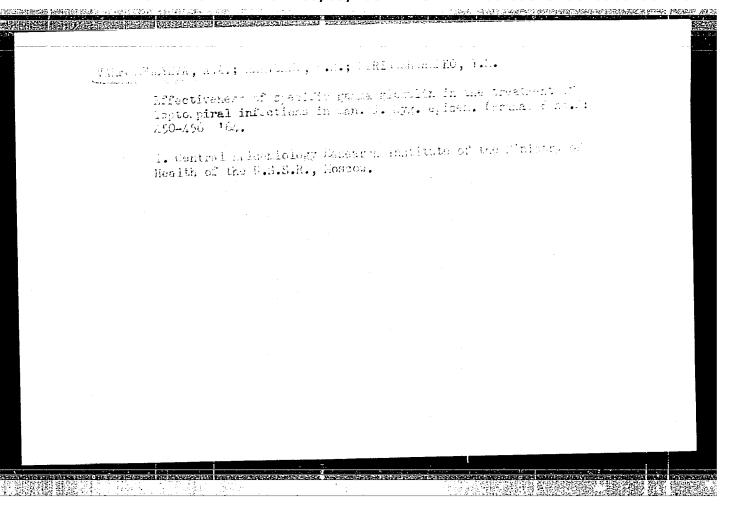
Actigenic structure of leptospirosis agents with respect to
the ecology of basic host arimals. Biul. MOIP. Otd. biol. 68
no.3:14-20 My-Je 163. (MTRA 17:8)



# VARFOLOMOEEVA, A.A.

Actiology of Meptospiroses in man and animals in the U.S.S.R. J. hyg. epidem. (Praha) 8 no.3:318-325 \*64

1. Central Institute of Scientific Research on Epidemiology, Moscow.



RUDCHENKO, A.V., prof.; BOKOV, A.N., dotsent; VARFOLOMEYEVA, A.G., assistant; BELOKON', A.N., dotsent; GORYAINOVA, We.F.; DANILOVA, V.I.

Industrial hygiene in the production of lead batteries. Report No.2. Sbor. trud. Kursk. gos. med. inst. no.13:15-22 '58. (MIRA 14:3)

1. Iz kafedry gigiyeny (zav. - prof. A.V.Rudchenko), obshchey khimii (zav. - dotsent A.N.Belokon) Kurskogo gosudarstvennogo meditsinskogo instituta i Kurskoy oblastnoy sanitarno-epidemiologicheskoy stantsii (glavnyy vrach - V.I.Latanov).

(LEAD POISONING) (INDUSTRIAL HYGIENE)

MAKERCOMEYEVA, A.M.

USSR/Cultivated Plants - Grains

М

Abs Jour

: Ref Zhur Biol., No 12, 1958, 53547

Author

: Buylin, D.P., Varfolomeyeva, A.M.

Inst

: Kuybyshevsk State Agricultural Testing Station

Title

: Bezenchukakaya 98 Spring Wheat

Orig Pub

: Byul. nauchno-tekhn. inform. Knypyshevsk. (Bezenchuksk).

gos. s.-kh. opydn. sv , 1957, 1, 31-32

Abstract

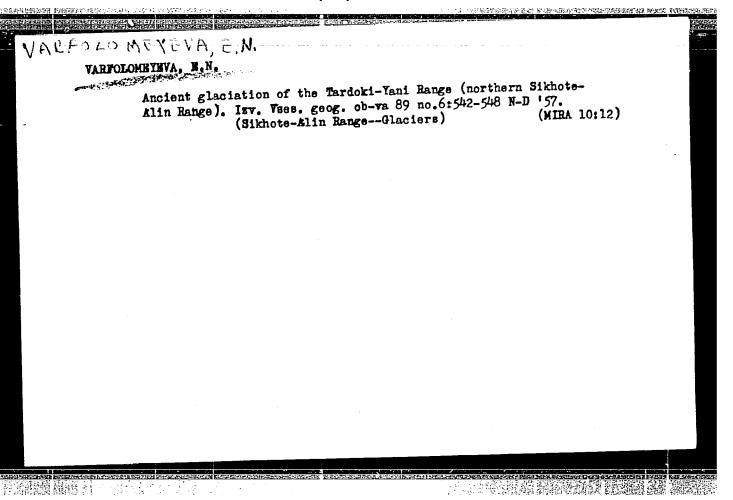
: This variety was developed for irrigation farming. It is characterized by a large number of spikelets on the spike, good grain yield (5-6 grains to a spikelet), resistance to desping off and to the attacks of fungus diseases. It is also distinguished by a high (18.8%) protein attacken content, and by good milling and bread baking qualities. With regard to yield, it exceeded Lyutestsons by 8.3 centuers/ha and Gordeiforme by 5.4

centners/ha.

Card 1/1

# "APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001858610016-5



YEVTUSHENKO, V.A.; VARFOLOMEYEVA, G.V.

Structure of agar gels. Part 1: Electron microscope study. Vysokom. soed. 5 no.12:1867-1869 D '63. (MIRA 17:1)

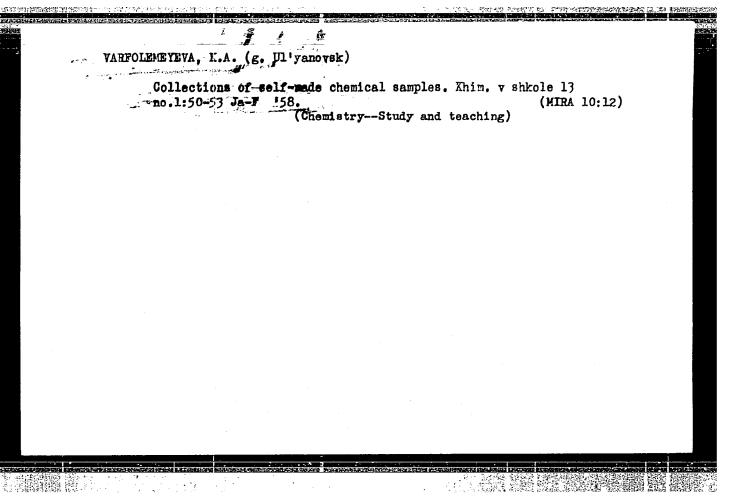
1. Severnyy nauchno-issledovatel'skiy institut promyshlen-nosti.

# VARFOLOMEYEVA, I,

or the sample terrorina and and analysis (see also become supplied to the second

Electron microscopic study of impressions of surfaces of pollen grains and sections ("Structure of some pollen membranes" [in German]. K. Mühlenthaler. Reviewed by I. Varfolomeeva. Bot. zhur. 41 no.3:434 Mr '56. (MLRA 9:8)

1. Botanicheskiy institut imeni V.L. Komarova Akademii nauk SSSR, Leningrad.
(Pollen, Fossil) (Electron microscopy)



VARFELLEMETERA - LA,

Category: USSR / Physical Chemistry - Crystals

B-5

Abs Jour: Referat Zhur-Khimiya, No 9, 1957, 29673

Author : Zhdanov G. S., Umanskiy M. M., Varfolomeyeva L. A., Yezhkova

Z.I., Zolina Z. K.

Inst: not given Moscow State UNIV. im MV. LomoNosov

Title : Roentgenographic Determination of Unit Cells and Spatial Groups of

Piezoelectric Crystals: KLiC\_H\_O\_.H\_O, NH\_LiC\_H\_O\_.H\_O, NaHC H\_O\_

H<sub>O</sub> and (NH<sub>2</sub>) C<sub>1</sub>HO<sub>2</sub>.

Orig Pub: Kristallografiya, 1956, 1, No 3, 271-273

Abstract: Precise measurements of lattice parameters were carried out on mono-

crystals by means of roentgenograms obtained with a RKU-ll4 camera, without thermostatic controls, at room temperature; Fedorov groups were determined from kforograms. For KLiC\_H\_O\_.H\_O (I) a 7.839, b 14.318, c 6.326 kX; 2.01; Z = 4; F.gr. P2\_212; NH\_LiC\_H\_O\_.H\_O (II) 7.860, 14.615, 6.414 kX; 1.73; 4; P2\_2\_2; NaHC\_H\_O\_.H\_O 8.663, 10.580, 7.230 kX; 4; P2\_2\_2; (NH\_) C\_H\_O\_. 7.067, 6.116, 8,790 kX; 592°25', 1.608; 2; P2\_. Crystals of I and II are isomorphous. Lattice

parameters of II were determined twice (RZhKhim, 1955, 39570).

Card : 1/1 -13-

i i karata (etazeakan zi bide)

AUTHORS: Varfolomeyeva, L.A., Zhdanov, G.S. and Umanskiy, M.M.

THTIE: The Determination in Principal of the Structure of the Isomorphous Group of Compounds  $[C(NH_2)_3][M(H_2O)_6]_2$ ,  $[EO_4]_2$ Where M = Al or Cr and E = S or Se (Printsipial naya rasshiftevka struktury izomorfnoy gruppy soyedineniy  $[C(NH_2)_3][M(H_2O)_6]_2$ ,  $[EO_4]_2$ , M = Al, Cr; E = S, Se)

PERIODICAL: Kristallografiya, 1958, Vol 3, Nr 3, pp 368 - 371 (USSR)

ABSTRACT: From packing considerations possible positions for the various structural groups in compounds of the GASH type are suggested: M(H<sub>2</sub>O)<sub>6</sub> at (0,0,0), (1/3, 2/3, Z<sub>1</sub>) and (2/3, 1/3, Z<sub>1</sub>); C(NH<sub>2</sub>)<sub>3</sub> at (0,0,Z<sub>2</sub>), (1/3, 2/3, 0) and (2/3, 1/3, 0); EO<sub>4</sub> at (1/3, 1/3, 1/4), (0, 2/3, 1/4), (2/3, 0, 1/4), (2/3, 2/3, 3/4), (0, 1/3, 3/4) and (1/3, 0,3/4). (2/3, 0, 1/4), (2/3, 2/3, 3/4), (0, 1/3, 3/4) and (1/3, 0,3/4). Patterson projections P(x,y) and P(x,z) were calculated from Patterson projections P(x,y) and P(x,z) were calculated from Weissenberg photographs for the compounds with (A1, S) and Weissenberg photographs for the suggested model. (A1, Se). These largely confirm the suggested model. There are 3 figures and 3 tables and 3 References, 1 of which Cardl/2

70-3-3-23/36
The Determination in Principal of the Structure of the Isomorphous Group of Compounds [C(NH<sub>2</sub>)<sub>3</sub>][M(H<sub>2</sub>O)<sub>6</sub>]<sub>2</sub>, [EO<sub>4</sub>]<sub>2</sub> Where M = Al or Cr and E = S or Se

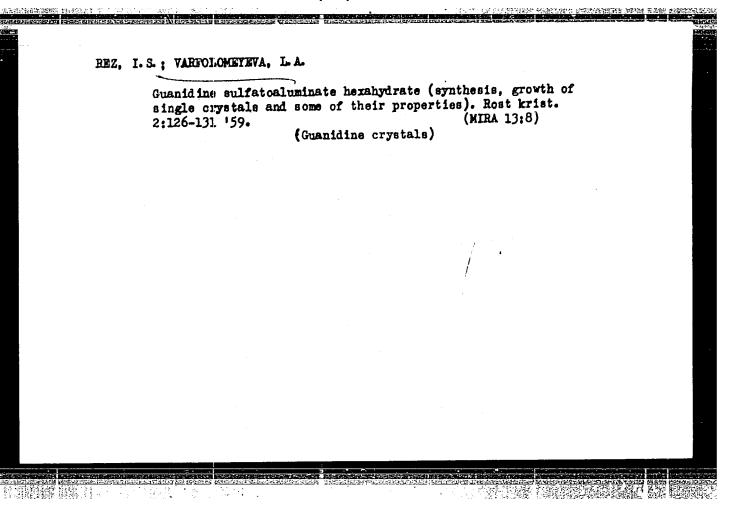
is Soviet and 2 English.

Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova (Moscow State University imeni M.V. Lomonosov) ASSOCIATION:

February 22, 1958 SUBMITTED:

Card 2/2

CIA-RDP86-00513R001858610016-5" APPROVED FOR RELEASE: 08/09/2001



238 p. r of first and firs		2	ສິ
relief : Book Expedituring  relief : Dook in the control of Crystals, vol. 2) Research : 2000 copies syndromed.  1. A. V. Sministry, ton. 2 (Growth of Crystals, vol. 2) Research : Dooks defeal and Misserbad.  1. A. V. Sministry, Academician, and E. H. Shathaling Stune:  Alabamedray Pod. Mai. F. V. Paylabra.  1. A. V. Sministry, Academician, and E. H. Shathaling Stune:  Alabamedray Pod. Mai. F. V. Paylabra.  1. A. Shathaling of the volumes on express growth a second of the volume of the v	Poper, S. E. Oroving and Cartain Uses of Cornadus Crystals III. SINVINS AND DESCUSSION ARTICLES		Shappers, Yo. H. Pain Trucks in the Study of Mind Systems: Inorganic Crystals - Trighile Admirture (Survey)
OMEYEVA, L. A.	Ĵ.1Ó⊊	'ARÀ	ľ.

ACC	44579.166 EWT(m)/EWP(j)/T WW/RM  NR: AP6015671 (A) SOURCE CODE: UR/0413/66/000/009/0076/0076  30  B : Arkhipova, Z. V.
INV	ENTOR: Zapletnyak, V. M.; Varfolomeyeva, L. S.; Arkhipova, Z. V.
1	G: none  CLE: Preparation of polyethylene or copolymers of ethylene with Alpha-olefins.  Iss 39, No. 181292 announced by the State Scientific Research Institute of State Scientific Research Institute Scientific Research Insti
pla	stmass)] IIRCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 9, 1966, 76
TC	PIC TAGS: copolymer, olefin, polyethylene, ethylene olefin copolymer
	STRACT: This Author Certificate introduces a method of obtaining polyethylene or polymers of ethylene with alpha-olefins in a hydrocarbon solvent at temperatures polymers of ethylene with alpha-olefins in a hydrocarbon solvent at temperatures polymers of to 80°C in the presence of a catalyst consisting of vanadium and nging from -30 to 80°C in the presence of a catalyst consisting of vanadium and reasonable in hydrocarbons. To increase the yield of polymers reasonable in hydrocarbons.
10.	
۱.	Card 1/2 UDC: 678.742.2.044:678.742.2-134.2.044

ACC NR: AP6015671					O
or copolymers, the polymerizat nydrocarbons, such as pentachle [Translation]	ion is carried orethane, as	d out in the thir	the presend d componen	e of haloger t of the cata	ated lyst. [LD]
SUB CODE: 11/ SUBM DATE:	28Jun65/		4		
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IRUZHININ, I.G.; VARFOLOMEYEVA, L.T.; FEL'DSHER, S.A.

Comparative characteristics of the chemical composition of well waters on the "Vasil'evskii" State Farm. Uch, zap. Biol.-pochv. fak. Kir. un. no.7:155-162 '58. (MIRA 15:10) (Kirghizistan—Water—Composition)

RUSAKOV, G.K., nauchnyy sotrudnik; MILYAVSKIY, I.O., nauchnyy sotrudnik; ARINA, A.Ye., nauchnyy sotrudnik; PANKOVA, K.I., nauchnyy sotrudnik; KHABAROV, N.F., nauchnyy sotrudnik. Prinimali uchastiye: PAVLOVA, N.G.; VYATCHININA, V.G.; VARFOLOMEYEVA, M.M. TIKHONOVA, Ye.M., red.; GUREVICH, M.M., tekhn.red.; DEYEVA, V.M., tekhn.red.

[Economic accountability on collective farms; regulations and methods of introduction] Vnutrikhoziaistvennyi raschet v kolkhozakh; primernoe polozhenie i metodika vnedreniia. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1960. 71 p. (MIRA 14:1)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut ekonomiki sel'skogo khozyaystva. 2. Vsesoyuznyy nauchno-issledovatel'skiy institut ekonomiki sel'skogo khozyaystva (for Rusakov, Milyavskiy, Arina, Pankova, Khabarov).

(Collective farms--Accounting)

VARFOLOMETEVA, M., s"yemshchitsa

To see each person individually. Sov.profsoiuzy 16 no.5:23
Mr '60. (MEA 13:3)

1. Yakhromskaya pryadil'no-tkatskaya fabrika.
(Textile workers--Education and training)

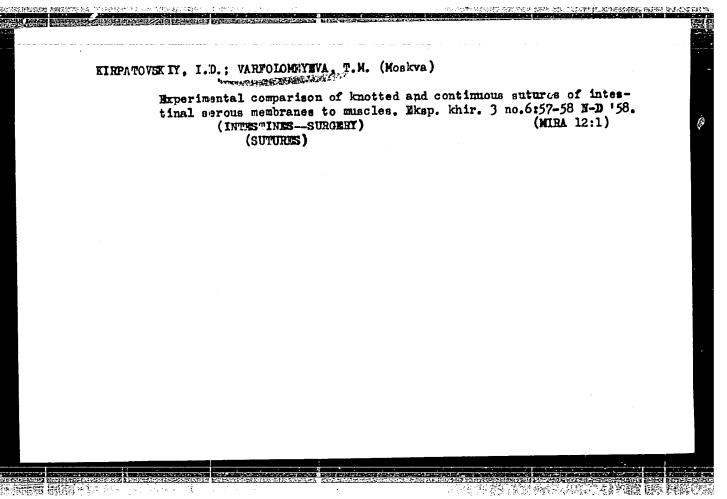
KRAMARENKO, G.N.; NECHAYEVA, Z.P.; TKACHENKO, S.S., dotsent; FLORENSOV, A.A., kand.med.nauk; LADIS, I.A.; VARFOLOMEYEVA, S.N.; KOSTRIKOV, V.S., kand.med.nauk

Reports on meetings of societies of traumatologists and orthopedists. Ortop., travm. i protez. 21 no.8:82-94 Ag '60. (MIRA 13:11) (ORTHOPEDIC SOCIETIES)

LESHCHINSKIY, L.A., dotsent; VARFOLOMEYEVA, T.B.; ORESHKOV, T.M.; PETUKHOVA, N.I.

Effectiveness of the cholagogue berberine in chronic inflammatory diseases of the biliary tract. Sov. med. 28 no.7:120-122 Jl \*164. (MIRA 18:8)

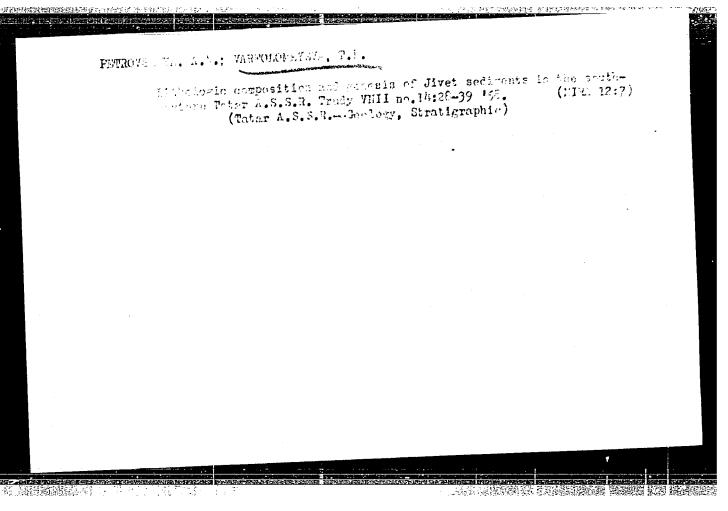
1. Kafedra gospital'noy terapii (nauchnyy rukovoditel' - prof. A.Ya.Cubergrits) Izhevskogo meditsinskogo instituta.



VARPOX CMEYE VAITOR

PETROVSKAYA, A.N.; VARPOLOMEYEVA, T.P.

Lithology and conditions of formation of the Pashiya series in the southeastern Tatar A.S.S.R. Trudy VNII no.11:26-41 '57. (MLRA 10:11) (Tatar A.S.S.R.--Books, Sedimantary)



PETROVSKAYA, A.N.; YEGOROVA, L.N.; VARFOLOMEYEVA, T.P.

Stratigraphic and lithologic correlation of the productive Devonian sediments in the Elabuga, Akhtash, and Asnakayevo areas of the Tatar A.S.S.R. Nauch.-tekh. sbor. po dob. nefti no.1:58-61 '58. (MIRA 15:9)

1. Vsesoyuznyy neftegazovyy nauchno-issledovatel'skiy institut.
(Romashkino regior--Petroleum geology)

ARFOLOM EYEVA, 20-6-17/48

AUTHORS:

Varfolomeyeva, V. N., Zhevandrov, N. D.

TITLE:

Polarization Diagrams of the Luminescence of the Monocrystals of Stilbene (Polyarizatsionnyye diagrammy lyuminestsentsii mono-

kristallov stil'bena)

PERIODICAL: Doklady AN SSSR, 1957, Vol. 115, Nr 6, pp. 1115 - 1118 (USSR)

ABSTRACT:

Investigations discussed here were carried out with spherical stilbene crystals. For the purpose of stimulating the luminescence in the center, the spheres were intersected in diagonal planes with a certain direction. The polarization diagrams were taken by a polarization-goniometric apparatus. First the dependence of polarization on the torsion angle of the crystal (round a horizontal axis) was measured at each hemisphere and then the positions of the crystal with such orientation was ascertained at which the polarization has the maximum positive or the maximum negative value. The stilbene monocrystals serving for the production of the samples were raised in soldered test-tubes according to the method of Obreimov-Shubnikov. The large monocrystals were divided into several smaller pieces. These spheres were intersected into

Card 1/3

20-6-17/48

工工学的对话等的表表或描述的

Polarization Diagrams of the Luminescence of the Monocrystals of Stilbene

hemispheres in the following planes: I - in the plane of the optical axes. II - square with the bisector of the acute angle between the optical axes. III - square with the bisector of the obtuse angle between the optical axes. Then something is said on the theoretical computation of the azimuthal dependences and of the polarization diagrams of the luminescence. Then a sketch illustrates the computed positive and negative polarization diagrams for all of the three sections mentioned above. A second sketch contains the corresponding diagrams that have been measured by experiment. There is a good conformity qualitative of the corresponding diagrams. Because of this good qualitative conformity the determination of the orientation of the molecules in the crystal lattices of the polarization of the luminescence can be considered. That is, a new method for the determination of the structure of the crystal is obtained thereby. But the theoretical and experimental curves do not correspond quantitatively, maybe because of the influence of the temperature and the thermal oscillations of the molecules. There are 2 figures, 4 references, 3 of which are Slavic.

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20-6-17/48

Polarization Diagrams of the Luminescence of the Monocrystals of Stilbene

Physical Institute imeni P.N. Lebedev, AN USSR - Institute for ASSOCIATION:

Crystallography, AN USSR

(Fizicheskiy institut imeni P.N. Lebedeva Akademii nauk SSSR,

Institut kristallografii Akademii nauk SSSR)

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SOV/51-5-5-12/23

Varfolomeyeva, V.H. and Zhevandrov, N.D. AUTHORS:

Spatial Distribution of Polarization of Luminescence from Stilbene and Tolane Crystals (Prostranstvennoye raspredeleniye polyarizatsii TITLE:

lyuminestsentsii kristallov stil bena i toluna)

PERIODICAL:Optika i Spektroskopiya, 1958, Vol 5, Nr 5, pp 571-581 (USSR)

ABSTRACT: In contrast to polarization in isotropic solutions, polarization of fluorescence of molecular crystals does not depend on anisotropy of excitation. The only spatial dependence of polarization in molecular crystals is the dependence on the angle between the direction of The graphical representation absorption and some other fixed direction. The authors of this dependence is called a polarization diagram. obtained polarization diagrams for luminescence of spherical crystals of stilbene and tolane. In order to excite a crystal only at the centre of the sphere, the spheres were cut in half along certain crystallographic planes and the plane of the cut was covered with a diaphragm so that only a small area of 1-2 mm diameter was excited at the centre of the sphere. The spheres themselves were from 5 to The crystals were excited on the plane side and

10 mm in radius. polarization of luminescence was measured on the spherical side. Card 1/3

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Spatial Distribution of Polarization of Luminescence from Stilbene and Tolane Crystals

Polarization diagrams were obtained using apparatus based on a goniometer and a Cornu polarimeter. Luminescence was excited using The hemispherical samples were prepared from the 365 mm Hg line. stilbene and tolane monocrystals. The directions of the optical axes were found by the method described by Shubnikov (Ref 2) and these directions were used to prepare the samples in such a way that the hemispheres were cut along one of the following planes: (1) the plane of the optical axes, (2) the plane normal to the bisector of the acute angle between the optical axes, and (3) at right-angles to the bisector of the obtuse angle between the optical axes. Figs 1 and 7 show the coordinates used in calculation of polarization diagrams (Fig 1) and depolarization by thermal vibrations (Fig 7). Figs 2 and 3 give the calculated polarization diagrams for stilbene and tolane respectively. Figs 4 and 5 give the experimental polarization diagrams for stilbene and tolane respectively. Fig 6 gives the polarization diagrams calculated for the case of an oscillator oriented along the transverse axis of the stilbene molecule. The degree of polarization

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Spatial Distribution of Polarization of Luminescence from Stilbens and Tolane Crystals

> was also measured for certain other crystals such as anthracene which contained some naphthacene (Fig 8), 1,10-dibromoanthracene and 3-dimetnylamino-6-aminophthalimide at room temperature, and at the temperature of liquid nitrogen. Within the experimental error polarization is the same at both temperatures. Analysis of all the polarization diagrams shows that both localized and free excitons take part in the process of luminescence. The relative intensity and polarization for free excitons was obtained for anthracene, which contained naphthacene (Fig 9). There are 9 figures and 16 references, 9 of which are Soviet. The right, burner, a Agric Carl Last Constitute in water to

SUEMITTED: November 18, 1957

2. Tolane crystals -- Luminescence 1. Stilbene crystals--Luminescence Card 3/3

3. Luminescence--Polarization 4. Mathematics